

§ 90.259 Assignment and use of frequencies in the bands 216–220 MHz and 1427–1435 MHz.

Frequencies in the bands 216–220 MHz and 1427–1435 MHz may be assigned to applicants under this part provided the band is listed in the individual radio pool under which they establish eligibility. Use of these bands is limited to telemetering purposes only and all operation is secondary to Federal Government operations. Operation in the band 216–220 MHz is also secondary to the maritime mobile service and operation in the band 1427–1429 MHz is also secondary to the space operation service (earth-to-space). Base stations authorized in these bands shall be used to perform telecommand functions with associated mobile telemetering stations. Base stations may also command actions by the vehicle itself, but will not be authorized solely to perform this function. Airborne use will not be authorized. Each application will be coordinated with the Federal Government by the Federal Communications Commission and is subject to such technical and operational limitations as may be imposed by the government. Each application should include precise information concerning emission characteristics, transmitter frequency deviation, output power, type and directional characteristics, if any, of the antenna, and the minimum necessary hours of operation.

[43 FR 54791, Nov. 22, 1978, as amended at 54 FR 38681, Sept. 20, 1989; 62 FR 18928, Apr. 17, 1997]

§ 90.261 Assignment and use of the frequencies in the band 450–470 MHz for fixed operations.

(a) Frequencies in the 450–470 MHz band as listed in § 90.20(c)(3) and § 90.35(b)(3) may be assigned to all eligibles for fixed use on a secondary basis to land mobile operations.

(b) Fixed stations located 140 km (87 mi) or more from the center of any urbanized area of 600,000 or more population are limited to a transmitter output power of 75 watts. Fixed stations less than 140 km (87 mi) from the centers of these areas are limited to a transmitter output power of 20 watts. Urbanized areas of 600,000 or more population are defined in the U.S. Census

of Population 1970, Vol. 1, Table 20, pages 1–74. The centers of the urbanized areas are determined from the Appendix, page 226, of the U.S. Department of Commerce publication “Airline Distance Between Cities in the United States.”

(c) All fixed systems are limited to one frequency pair with 5 MHz spacing and must employ directional antennas with a front-to-back ratio of 15 dB, except that omnidirectional antennas having unity gain may be employed by stations communicating with a minimum of three receiving locations encompassed in a sector of at least 160° in azimuth. Stations authorized for secondary fixed operations prior to (effective date of the rules) may continue to operate under the conditions of their initial authorization.

(d)–(e) [Reserved]

(f) Secondary fixed operations pursuant to paragraph (a) of this section will not be authorized on the following frequencies:

Frequencies (MHz)

451.800/456.800	453.0875/458.0875
451.80625/456.80625	453.09375/458.09375
451.8125/456.8125	453.125/458.125
451.81875/456.81875	453.13125/458.13125
452.525	453.1375/458.1375
452.53125	453.14375/458.14375
452.5375	453.175/458.175
452.54375	453.18125/458.18125
452.550	453.1875/458.1875
452.55625	453.19375/458.19375
452.5625	454.000/459.000
452.56875	454.00625/459.00625
452.575	454.0125/459.0125
452.58125	454.01875/459.01875
452.5875	462.950/467.950
452.59375	462.95625/467.95625
452.600	462.9625/467.9625
452.60625	462.96875/467.96875
452.6125	462.975/467.975
452.61875	462.98125/467.98125
452.925/457.925	462.9875/467.9875
452.93125/457.93125	462.99375/467.99375
452.9375/457.9375	463.000/468.000
452.94375/457.94375	463.00625/468.00625
452.950/457.950	463.0125/468.0125
452.95625/457.95625	463.01875/468.01875
452.9625/457.9625	463.025/468.025
452.96875/457.96875	463.03125/468.03125
453.025/458.025	463.0375/468.0375
453.03125/458.03125	463.04375/468.04375
453.0375/458.0375	463.050/468.050
453.04375/458.04375	463.05625/468.05625
453.075/458.075	463.0625/468.0625
453.08125/458.08125	463.06875/468.06875

§ 90.263

463.075/468.075	463.1375/468.1375
463.08125/468.08125	463.14375/468.14375
463.0875/468.0875	463.150/468.150
463.09375/468.09375	463.15625/468.15625
463.100/468.100	463.1625/468.1625
463.10625/468.10625	463.16875/468.16875
463.1125/468.1125	463.175/468.175
463.11875/468.11875	463.18125/468.18125
463.125/468.125	463.1875/468.1875
463.13125/468.13125	463.19375/468.19375

[57 FR 24992, June 12, 1992, as amended at 58 FR 33212, June 16, 1993; 60 FR 37268, July 19, 1995; 62 FR 18928, Apr. 17, 1997]

§ 90.263 Substitution of frequencies below 25 MHz.

Frequencies below 25 MHz when shown in the radio pool frequency listings under this part will be assigned to base or mobile stations only upon a satisfactory showing that, from a safety of life standpoint, frequencies above 25 MHz will not meet the operational requirements of the applicant. These frequencies are available for assignment in many areas; however, in individual cases such assignment may be impracticable due to conflicting frequency use authorized to stations in other services by this and other countries. In such cases, a substitute frequency, if found to be available, may be assigned from the following bands 1605-1750, 2107-2170, 2194-2495, 2506-2850, 3155-3400, or 4438-4650 kHz. Since such assignments are in certain instances subject to additional technical and operation limitation, it is necessary that each application also include precise information concerning transmitter output power, type and directional characteristics, if any, of the antenna, and the minimum necessary hours of operation. (This section is not applicable to the Radiolocation Radio Service, subpart F.)

[43 FR 54791, Nov. 22, 1978, as amended at 62 FR 18929, Apr. 17, 1997]

§ 90.264 Disaster communications between 2 and 10 MHz.

(a) The use of any particular frequency between 2 and 10 MHz is limited to those frequencies falling within the bands allocated to the fixed and land mobile services as indicated in § 2.106 of the Commission's Rules and Regulations.

(b) Only in the following circumstances will authority be extended

47 CFR Ch. I (10-1-98 Edition)

to stations to operate on the frequencies between 2 and 10 MHz:

(1) To provide communications circuits in emergency and/or disaster situations, where safety of life and property are concerned;

(2) To provide standby and/or backup communications circuits to regular domestic communications circuits which have been disrupted by disasters and/or emergencies.

(c) The FCC will not accept responsibility for protection of the circuits from harmful interference caused by foreign operations.

(d) In the event that a complaint of harmful interference resulting from operation of these circuits is received from a foreign source, the offending circuit(s) must cease operation on the particular frequency concerned immediately upon notification by the Commission.

(e) In order to accommodate the situations described in paragraphs (c) and (d) of this section, the equipment shall be capable of transmitting and receiving on any frequency within the bands between 2 and 10 MHz and capable of immediate change among the frequencies.

(f) Only 2K80J3E, 100HA1A and those emission types listed in § 90.237(g) are permitted.

(g) Applicants must fulfill eligibility requirements set out in § 90.20(d)(6) and shall submit disaster communications plans pursuant to § 90.129(m).

(h) Training exercises which require use of these frequencies for more than 420 minutes per week, cumulative, are not authorized without prior written approval from the Commission.

[46 FR 52373, Oct. 27, 1981, as amended at 48 FR 32831, July 19, 1983; 49 FR 48712, Dec. 14, 1984; 62 FR 18929, Apr. 17, 1997]

§ 90.265 Assignment and use of frequencies in the bands 169-172 MHz and 406-413 MHz.

(a) The following frequencies are available for assignment to fixed stations in the Industrial/Business Pool subject to the provisions of this section:

FREQUENCIES (MHz)

169.425	169.475
169.450	169.500